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II. CLAIMS

1. (Currently Amended) Diagnostic procedure for identification of a disorder of a pancreas in a patient comprising determining an overall content of all known pancreatic elastases (iso-enzymes) in the patient's serum, secretions or excretions of a patient, so as to thereby diagnose a disorder of the pancreas by administering immuno-chemical systems using monoclonal or polyclonal antibodies, being single specific antibodies or cross-reactive antibodies that can recognize all elastase iso-enzymes but which cannot recognize the antigen with the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1).
2. Cancelled
3. (Currently Amended) The procedure according to claim 1 ~~claim 2~~, comprising obtaining antibodies by means of antigens selected from the group consisting of complete elastases 1, 2 and 3 or of their sub-units wherein the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1) is not used as an elastase fragment or as an immunologically effective partial sequence thereof.
4. (Currently Amended) The procedure according to claim 3, wherein the following synthetic peptides are ~~primarily~~ used as antigens ~~antigenes which after the antigens of animals to~~ induce antibodies which cross-reactively recognize several elastases ~~but do not concern~~ with the exception of the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1):

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NH2-A-V-K-E-G-P-E-Q-V-I-P-I-N-COOH (SEQ ID NO: 2)
NH2-Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R-COOH (SEQ ID NO: 3)
NH2-R-S-G-C-N-G-D-S-G-G-P-L-N-COOH (SEQ ID NO: 4)
NH2-G-P-L-N-C-P-T-E-D-G-G-W-Q-COOH (SEQ ID NO: 5)
NH2-G-T-E-A-G-R-N-S-W-P-S-Q-I-COOH (SEQ ID NO: 6)
NH2-H-N-L-S-Q-N-D-G-T-E-Q-Y-V-COOH (SEQ ID NO: 7)
NH2-W-G-K-T-K-T-N-G-Q-L-A-COOH (SEQ ID NO: 8)
NH2-V-S-S-R-G-C-N-V-S-R-K-P-T-COOH (SEQ ID NO: 9)
NH2-G-G-E-E-A-R-P-N-S-W-P-W-Q-COOH (SEQ ID NO: 10)
NH2-S-S-S-R-T-Y-R-V-G-L-G-R-H-N-COOH (SEQ ID NO: 11)
NH2-K-D-W-N-S-N-Q-I-S-K-G-N-D-COOH (SEQ ID NO: 12)
NH2-G-P-L-N-C-Q-A-S-D-G-R-W-COOH (SEQ ID NO: 13)
NH2-G-A-L-P-D-D-L-K-Q-G-R-L-COOH (SEQ ID NO: 14)
NH2-S-L-Q-Y-E-K-S-G-S-F-Y-COOH (SEQ ID NO: 15)
NH2-F-G-C-N-T-R-R-K-P-T-V-F-T-COOH (SEQ ID NO: 16).

5. (Previously Presented) The procedure according to claim 1, wherein the antibodies are used singly or in a combination in an immuno-chemical identification system.

6. (Currently Amended) Immunological test kits for a diagnosis and progress check of diseases of the pancreas using stool or body fluids containing one or more of monoclonal or polyclonal antibodies, which are single specific antibodies or cross-reactive antibodies that can recognize all elastase iso-enzymes with the exception of the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1) ~~the antibodies used in claim 2.~~

7. (Currently Amended) Procedure for obtaining monoclonal and/or

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polyclonal antibodies that react specifically with human elastase 1 in stool or body fluids and are induced by ~~standard~~ immunization procedures, comprising

administering peptides A-V-K-E-G-P-E-Q-V-I-P-I-N (SEQ ID NO: 1), Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R (SEQ ID NO: 1), R-S-G-C-N-G-D-S-G-G-P-L-N (SEQ ID NO: 2 ~~NO: 1~~) and G-P-L-N-C-P-T-E-D-G-G-W-Q (SEQ ID NO: 5 ~~NO: 1~~) or immunogenic ~~partial~~ portions of such peptides to a vertebrate as antigens for the immunization of vertebrates,

inducing the formation of antibodies, and

separating and purifying such antibodies,

thereby obtaining monoclonal and/or polyclonal antibodies that react specifically with human elastase 1 in stool or body fluids.

8. (Currently Amended) The procedure according to claim 7, comprising coupling wherein before immunization free peptides are coupled with suitable carrier substances before administration to the vertebrate.

9. (Currently Amended) The procedure according to claim 7, wherein the vertebrate is a chicken polyclonal antibodies are produced using chickens as experimental animals.

10. (Previously Presented) Polyclonal antibodies, produced according to claim 7.

11. (Previously Presented) Monoclonal antibodies, produced

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according to claim 7.

12. (Currently Amended) Synthetic peptide A-V-K-E-G-P-E-Q-V-I-P-I-N (SEQ ID NO: 2 ~~SEQ ID NO: 1~~)

13. (Currently Amended) Synthetic peptide Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R (SEQ ID NO: 3 ~~SEQ ID NO: 1~~)

14. (Currently Amended) Synthetic peptide R-S-G-C-N-G-D-S-G-G-P-L-N (SEQ ID NO: 4 ~~SEQ ID NO: 1~~)

15. (Currently Amended) Synthetic peptide G-P-L-N-C-P-T-E-D-G-G-W-Q (SEQ ID NO: 5 ~~SEQ ID NO: 1~~)

16. Cancelled

17. (Currently Amended) Immunological test kits for the diagnosis and progress check of diseases of a pancreas and of mucoviscidosis using stool or body fluids comprising the antibodies of claim 1 bound to a carrier.

18. (Currently Amended) Immunological test kits according to claim 17, wherein 2 different antibodies are used in a Sandwich-ELISA ~~(Sandwich-ELISA)~~ test.

19. (New) The procedure of claim 7 where the immunization procedure comprises coupling peptides to hemocyanin.

20. (New) The procedure according to claim 3 where synthetic peptides are used as antigens for the induction of B-cells which are fused with meyloma cells for generating hybridoma cells

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which are cultivated in cell lines producing specific monoclonal antibodies.